



000100-00902-051999

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Systems Integration Group, Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number: 100-902

Date of Issuance: MAY 19 1999

NOTICE OF PESTICIDE:
[X] Registration
[] Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditionally until May 1, 2002

Name of Pesticide Product: Emamectin Benzoate Technical

Name and Address of Registrant (include ZIP Code):

Novartis Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(C), since you have agreed to:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label change before you release the product for shipment:
a. Add the phrase "EPA Registration Number 100-902 " to the label.
b. Place an asterisk next to the active ingredient "Emamectin Benzoate" and the CAS No. 137512-74-4 to make a clear link between the two.

Signature of Approving Official:

[Handwritten Signature]

Date:

MAY 19 1999

EPA Form 8570-6

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE, containing handwritten entries: 75052, SA, 5/19/99.

d. Under the Directions for Use, delete "fruiting vegetables" and "cole crops" and change to read "head and stem brassica crops, celery and head lettuce".

e. Revise the Pesticide Disposal statement to read as follows:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

f. Revise the Container Disposal statement to read as follows:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

g. Revise the Hazards to Humans and Domestic Animals to read as follows:

Corrosive. Cause irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shields or safety glasses). May be fatal if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

h. Under the Statement of Practical Treatment section, place the IF IN EYES statements before the IF SWALLOWED statements.

i. Under the Environmental Hazards section, delete the statements pertaining to an end-use formulation and replace with the following:

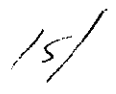
The pesticides is toxic to fish, birds, mammals, and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact you State Water Board or Regional Office of the EPA.

3. Submit two copies of the revised final printed label for the record. Refer to the A-79 enclosure for a further description of final printed labeling.

accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division

Enclosure

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Emamectin Benzoate Technical

An Insecticide For Formulation Use Only

Active Ingredients:

Emamectin Benzoate (4"-epi-methylamino-4"-deoxyavermectin B, benzoate).....	96.0%
Related Compounds	3.0%
<hr/>	
Inert Ingredients:	1.0%
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN.

DANGER - POISON

SKULL & CROSSBONES

CAS No. 137512-74-4

Made in U.S.A.

EPA Reg. No. 100-902

EPA Est. 618-PA-1

Product ID. 184294

Lot # _____

Net Weight:

Physical _____ Kg

Assay _____ Kg

Drum No. _____

Manu. ID 22763

NCP 902A-L1C 0499

ACCEPTED
with COMMENTS
to EPA Letter Dated

MAY 19 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-902

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITIONS OF SALE AND WARRANTY

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Novartis and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Novartis.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This product may be used only to manufacture/formulate other insecticide products registered and labeled for use only on cole crops, leafy vegetables, and fruiting vegetables.

STORAGE AND DISPOSAL

Storage

Store in a tightly closed original container in a cool, dry place.

Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved facility. Do not reuse empty container.

Container Disposal

Triple rinse (or equivalent) and dispose of in an incinerator or landfill approved for pesticide containers.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals**DANGER**

Fatal if swallowed. Avoid contact with skin, eyes, or clothing. Corrosive. Causes irreversible eye damage. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

Recommendations for Medical Treatment for Emamectin Benzoate Acute

Toxicity: Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity following accidental ingestion of the concentrate can be minimized by inducing vomiting within ½ hour of exposure. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels) as indicated by clinical signs, symptoms, and measurements. In severe cases, observations should continue for at

least several days until clinical condition is stable and normal. Since emamectin benzoate is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic emamectin benzoate exposure.

For 24 hour emergency medical information, call Novartis Crop Protection, Inc. at 1-800-888-8372.

Statement of Practical Treatment

If swallowed: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol.

If on skin: Wash with plenty of soap and water. Get medical attention.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

Environmental Hazards

The labeling of any product formulated from this product must state: "This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate."

The labeling of any product formulated from this product must state: "This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow drift to blooming crops or weeds if bees are visiting the treatment area."

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Novartis Crop Protection, Inc.
Greensboro, North Carolina 27419
NCP 902A-L1C 0499

[GANNONC.LABELS-E/EM-BE-TC-A] - ccg - 4/1/99